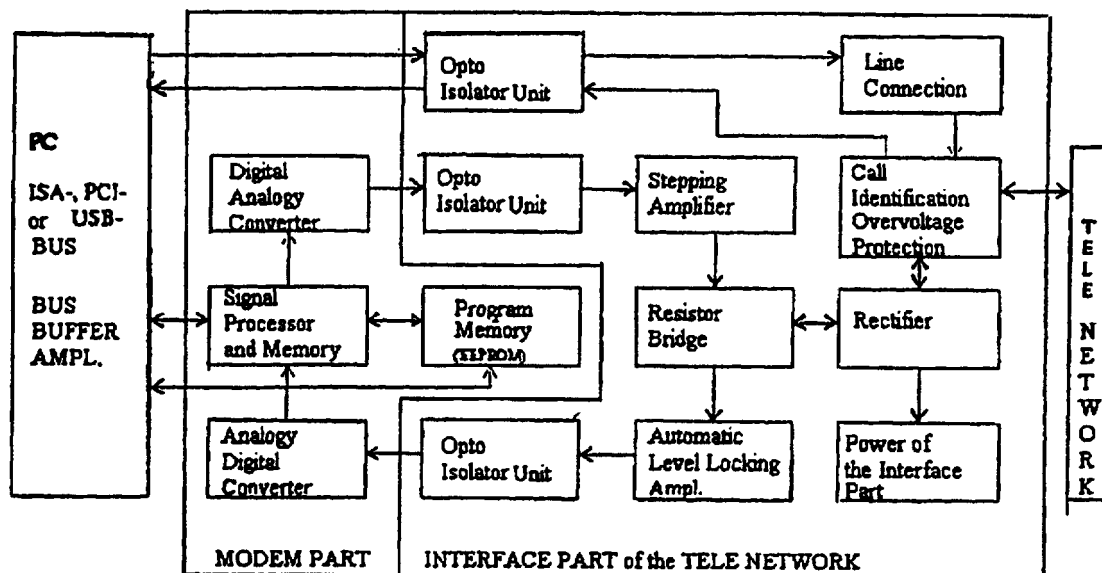




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(54) Title: ADAPTIVE MODEM AND METHOD FOR ADAPTIVE ELECTION OF MODULATION MODE

**(57) Abstract**

Adaptive modem including modem part which comprises a transmitter and a receiver using digital signal processing and a control unit needed for the control of the modem functions, interface for the telecommunication network, where we have interfaces for the telecommunication network, and the signal amplification and waveform shaping units needed in transmission and receiving process, and the computer bus interface. Digital signal processing includes the calculation algorithms of an application of Fourier Transform, where the transmitter and receiver functions are made with the algorithms mentioned optimally adaptive to the transmission speed, bit error and/or bandwidth of the available communication channel.